“(Em)powering the Edges of the Archipelago”

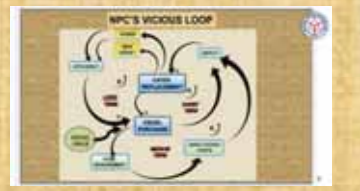
Fernando Martin Y. Roxas, DBA

24 June 2025



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NPC Mandates



Missionary Electrification

Perform missionary electrification

(Sec. 70, RA 9136)

Promote the utilization of indigenous and renewable energy sources

(RA 9513)



Watershed Management

Undertake watershed management in 11 watershed areas covering 485,199 hectares in support of power generation

(RA 6395; EO. 224 s.1987; Sec. 34d, RA 9136)



Dams Management

Continue to be responsible for 12 large dams and all other appurtenant structures necessary for the safe and reliable operation of hydropower plants

(RA 6395; Sec. 6d, Rule 23, RA 9136-IRR)



Management and Operation of Remaining Generating Assets (Main Grid)

-Operate and maintain the undisposed main grid generating assets including the seven (7) hydroelectric plants of Agus and Pulangi in Mindanao

(Section 47 (f) & (j) of RA 9136);

- Contract Management of 7 Independent Power Producers (IPPs) for and on behalf of PSALM Corp. (Section 47 (j) of RA 9136; NPC-PSALM M&O Agreement)

-Caretaker of the Bataan Nuclear Power Plant (BNPP) (412 ha.)

(EO. 55 s.1986; EO. 265 s.1995)

Missionary Electrification at a Glance as of December 2024



1.3M Households or 5.3 M Filipinos

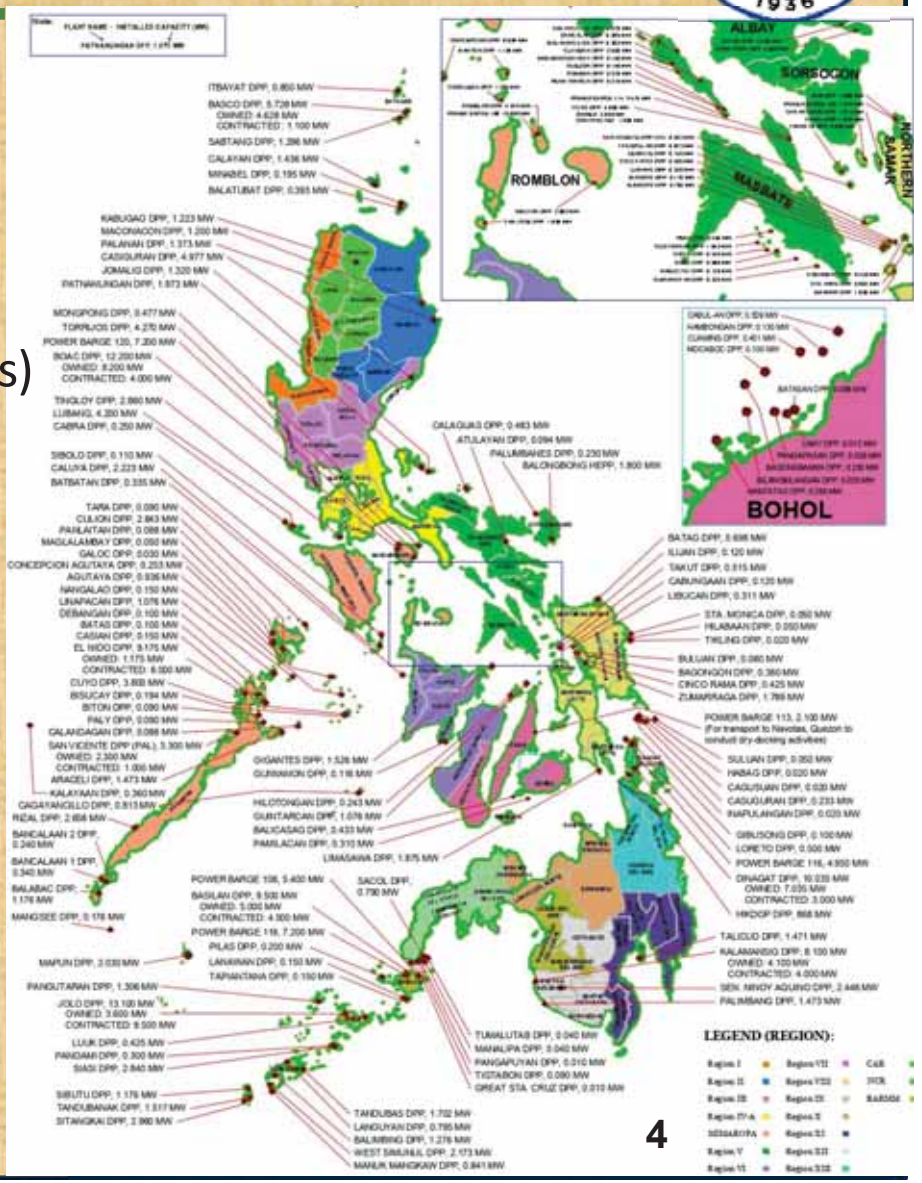


168 Islands

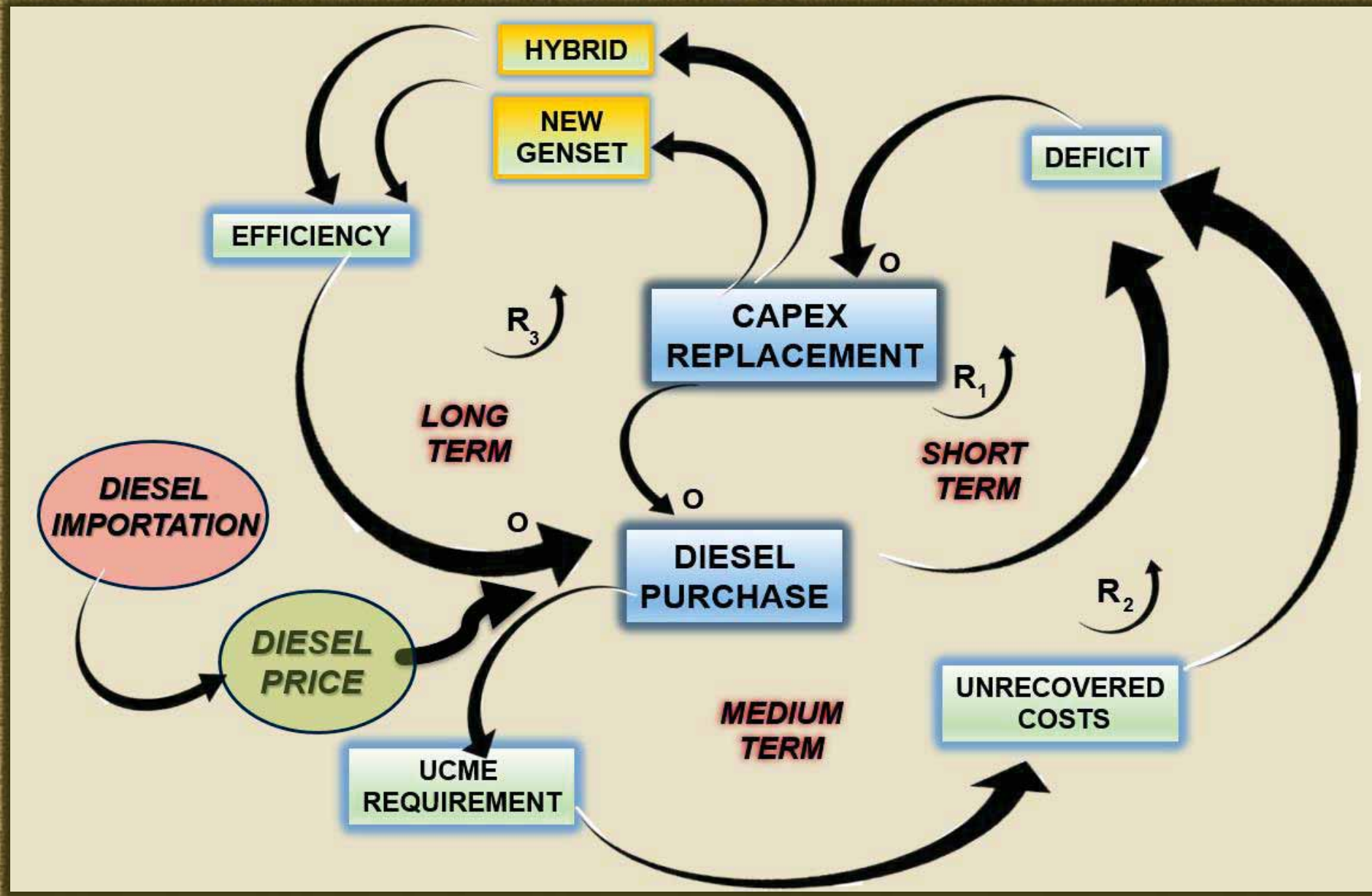
- **18** islands served by New Power Providers (NPPs) and Qualified Third Parties (QTP)
- **150** islands served by NPC-Small Power Utilities Group (SPUG)

NPC-SPUG Power Plants -	**268**
No. of NPPs/QTPs –	**24**
Total Installed Capacity –	**263.715 MW**
Total Dependable Capacity -	**185.173 MW**
Distribution Utilities with PSAs –	**44 (40 DUs, 4 LGUs)**
Total Length of Transmission Line –	**1,173.92 ckt kms**
No. of Substation / Total S/S Capacities –	**14 / 225 MVA**

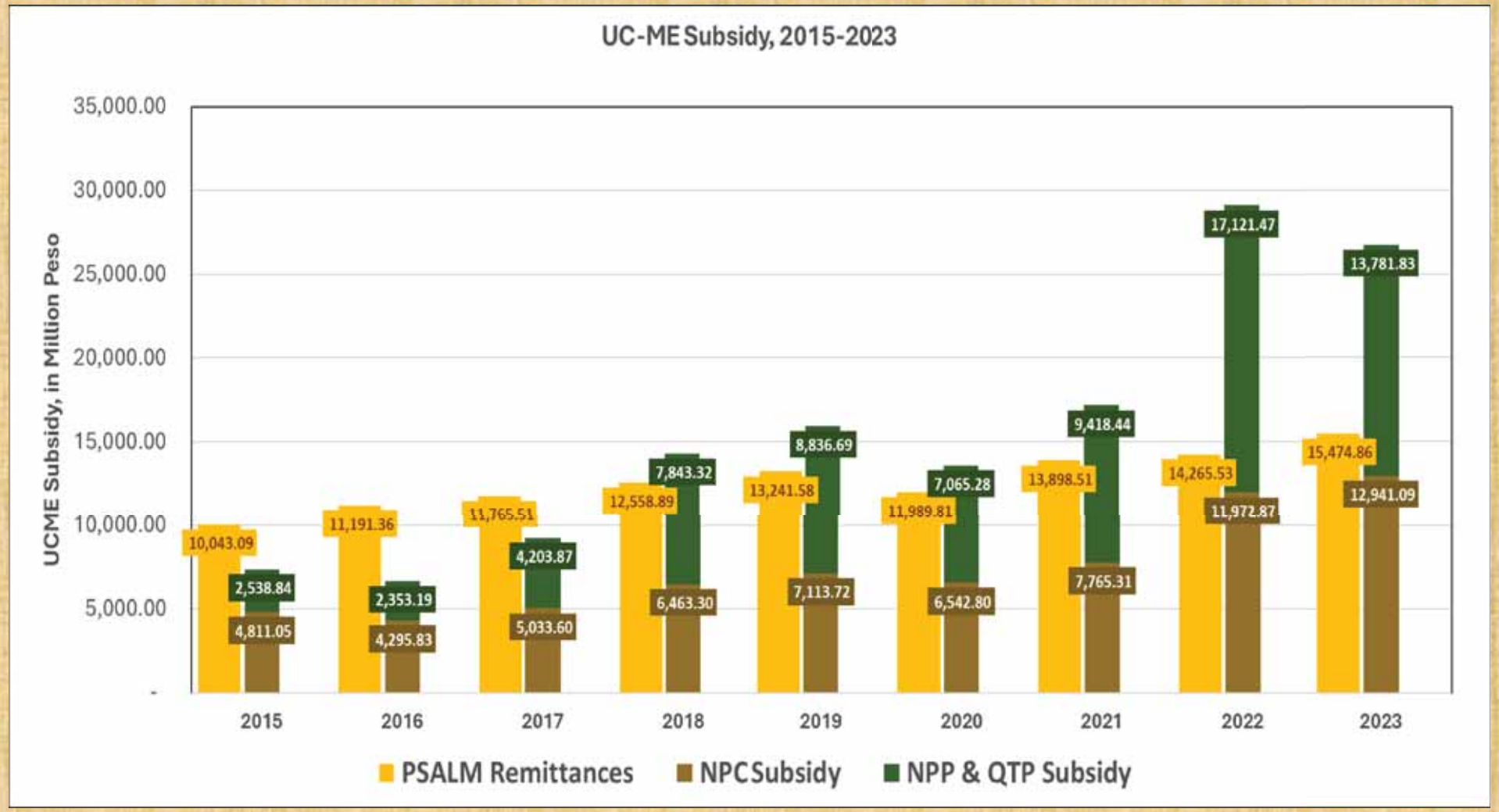
** Includes Philippine Rural Electrification Service (PRES) in Masbate with total dependable capacity of 0.878MW (95 plants)*



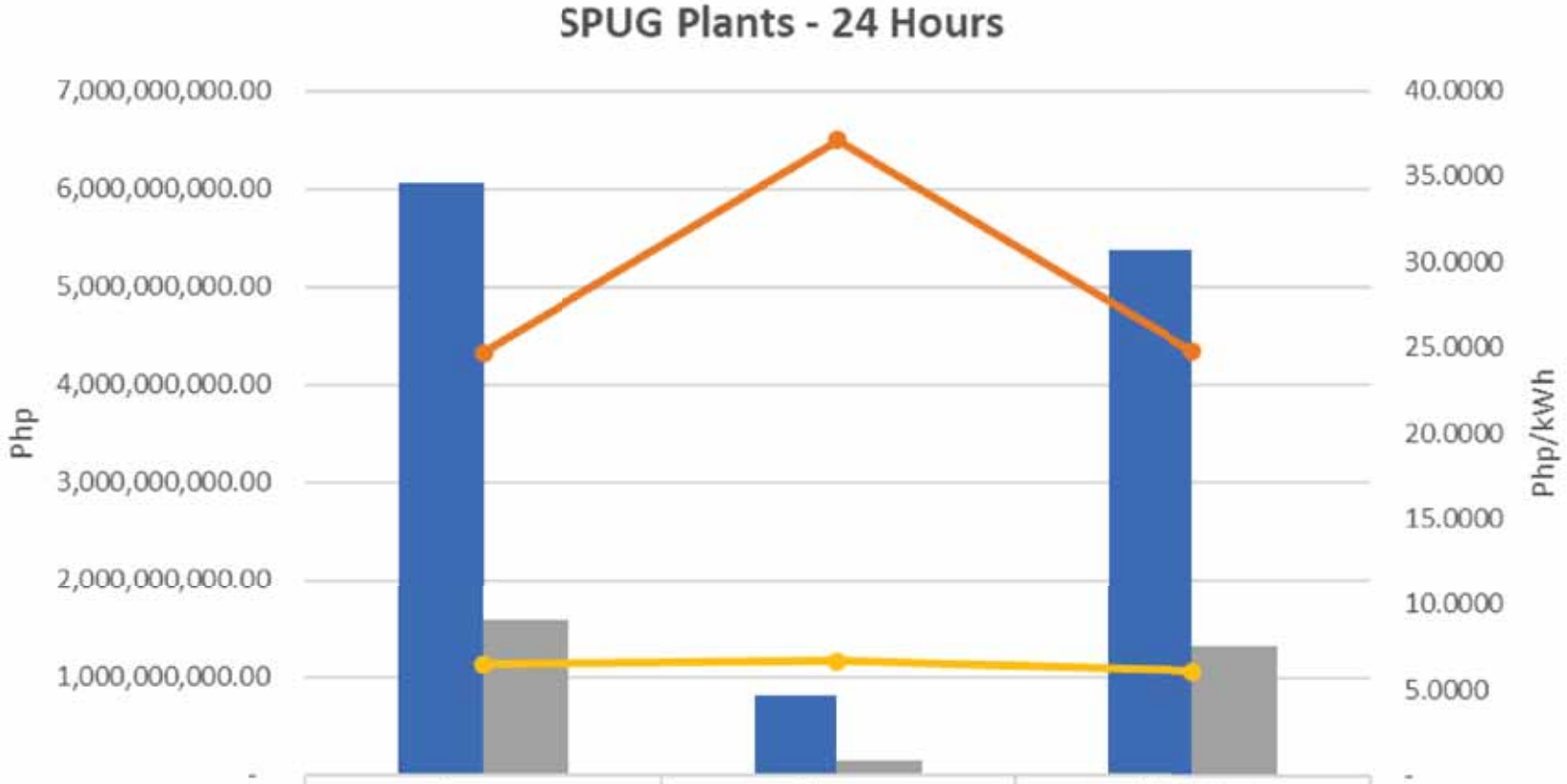
NPC'S VICIOUS LOOP



2015-2023 UCME Subsidy



TCGR/SAGR of Luzon, Visayas, Mindanao



	Luzon	Visayas	Mindanao
TCGR, Php	6,056,949,209.77	805,211,591.41	5,368,416,117.27
SAGR, Php	1,579,684,066.57	144,324,518.77	1,314,998,634.66
TCGR, Php/kWh	24.7303	37.1257	24.7716
SAGR, Php/kWh	6.4498	6.6543	6.0678

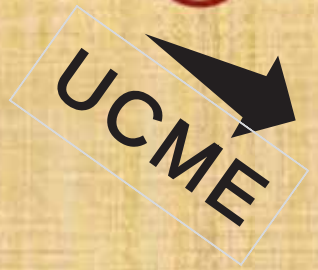
NPC Accelerated Hybridization Program (AHP)

- Hybridization Project for NPC-SPUG Diesel Power Plants through **Private Sector Participation**.
- Using Renewable Energy Resources (Solar + Battery, Wind + Battery, Hydro, Biomass, Hybrid, etc.)

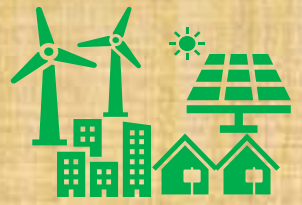
OBJECTIVES



REDUCE FUEL EXPENSES



REDUCE UCME SUBSIDIES

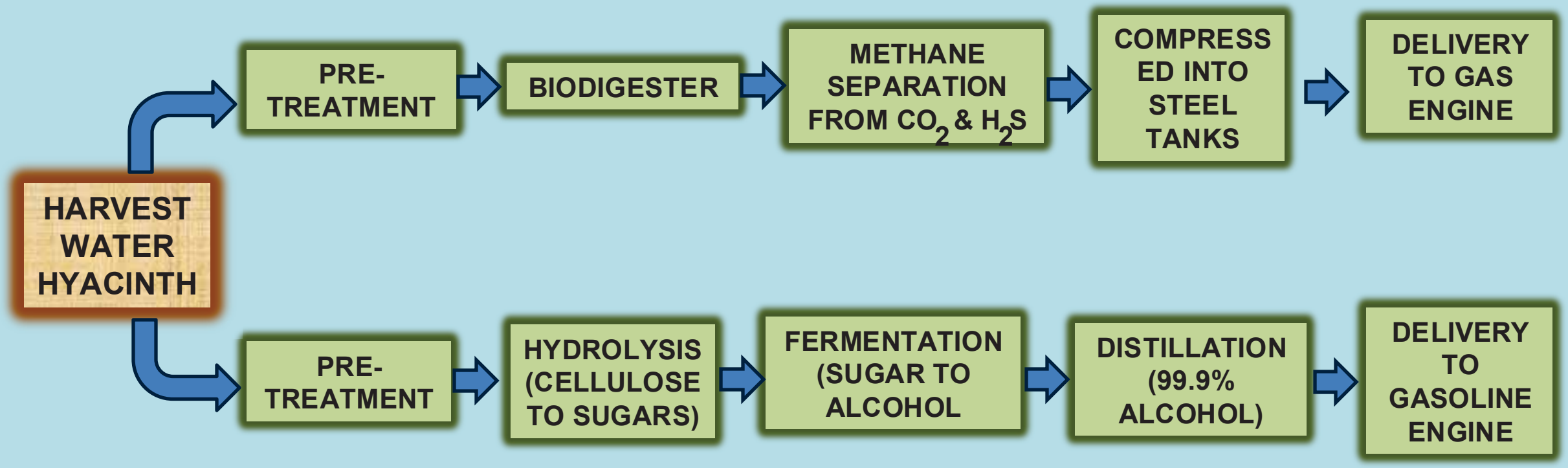


INTEGRATE RE IN THE POWER SUPPLY MIX



COMPLIANCE TO RENEWABLE PORTFOLIO STANDARDS (RPS)

SUSTAINABILITY MEETS INNOVATION: THE PROTOTYPE



SUSTAINABILITY MEETS INNOVATION: THE PROTOTYPE

WATER HYACINTH (Eichhornia Crassipes)

- Eichhornia crassipes - a floating aquatic plant native to South America.
- Introduced as an ornamental plant but became invasive.
- Perennial plant – recurring, present in all seasons of the year.
- Grows rapidly, doubling its population in just two weeks under ideal conditions. (exceeded 35 degree Celsius)



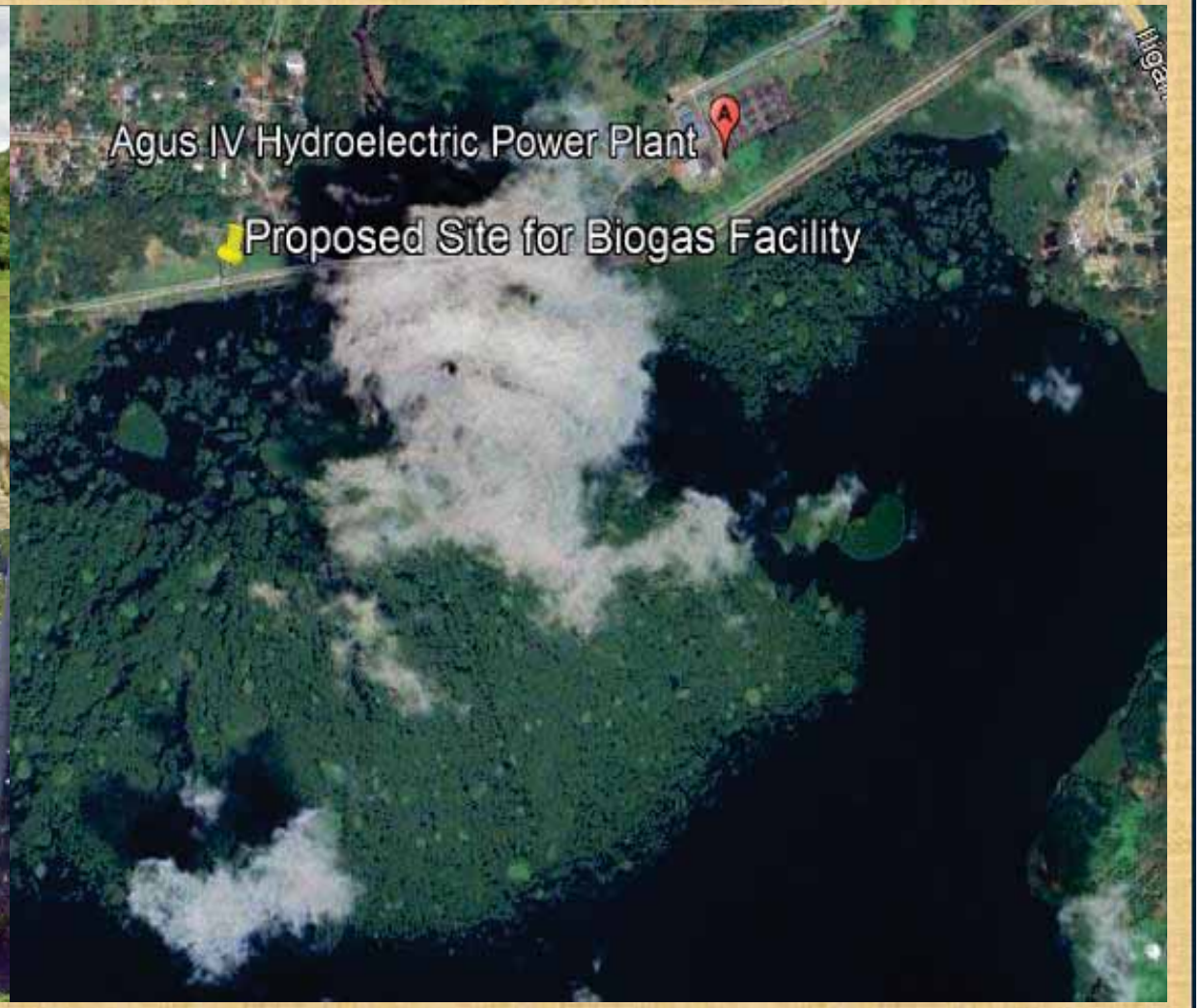


PROPOSED LOCATION FOR BIOGAS FACILITY

Agus IV Hydroelectric Power Plant, Baloi Lanao del Norte







SITE VISIT

Taguig, Metro Manila on March 28, 2025
Bio-digester utilizing Water Hyacinth as feedstock in relation to NPC's Compressed Biogas (CBG) Power Plant Project









Thank You

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